THE RECOVERY KERNEL

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ΔFosB

[illegible].

[illegible], [illegible], [illegible] - [illegible].

⚠ [illegible] - [illegible].

[illegible], 112 [illegible] findahelpline.com [illegible].

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[illegible]. [illegible], ΔFosB [illegible] ([illegible]), [illegible], [illegible], [illegible]: [illegible], [illegible], [illegible], [illegible].

[illegible]: ΔFosB [illegible]. [illegible], [illegible]-[illegible]. [illegible], [illegible]. [illegible], [illegible], [illegible].

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"Recovery Kernel" [illegible]:

- [illegible] — [illegible], [illegible], [illegible] ([illegible] ΔFosB-[illegible]; [illegible]).
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- [illegible] - [illegible], [illegible], [illegible].
- [illegible]/[illegible] - [illegible]; [illegible], [illegible].
- [illegible]/[illegible] - [illegible].
- [illegible] — [illegible], [illegible].

1. ΔFosB [illegible] - [illegible].

[[illegible]] ([illegible]; [illegible]).

ΔFosB [illegible] FOSB [illegible], [illegible] - [illegible], [illegible] - [illegible], [illegible]. [illegible], [illegible]:

- [illegible]. [illegible], [illegible] ([illegible] D1 [illegible], Activin/ALK4 [illegible] SMAD3–PCBP1 [illegible]) FOSB [illegible]-mRNA [illegible]. [illegible] ΔFosB [illegible], [illegible] FosB [illegible] C-[illegible]. [illegible], [illegible]-[illegible]. [illegible], ΔFosB [illegible], [illegible].
- [illegible] 2 (Casein Kinase 2) (CK2) [illegible]. [illegible] ΔFosB [illegible] (Serine 27) [illegible]. [illegible], [illegible], [illegible]. [illegible], 35–37 kDa [illegible]. [illegible], [illegible].

[illegible], [illegible].

[illegible]	[illegible].	[illegible]?	[illegible].	[illegible].
[illegible] FosB.	~50 kDa	[illegible] C-[illegible].	C-[illegible]-[illegible].	[illegible] — [illegible].
[illegible] ΔFosB.	~33 kDa	[illegible]-4/[illegible]-4 [illegible], [illegible]-[illegible], [illegible] 27 [illegible].	[illegible], [illegible] N-[illegible].	[illegible] - [illegible].
[illegible] ("[illegible]") ΔFosB.	~35–37 kDa	[illegible] 2 (CK2) [illegible] 27 [illegible], [illegible], [illegible].	[illegible], [illegible].	[illegible] — [illegible], [illegible]

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[illegible]	[illegible].	ΔFosB [illegible].	[illegible].
		[illegible]. [illegible].[illegible].[illegible] (OAT) [illegible], [illegible].	
[illegible] ([illegible], [illegible]).	GABA-A [illegible]-[illegible] 2-[illegible].	[illegible], [illegible]. [illegible], [illegible] GABA-A [illegible]/[illegible], [illegible] ΔFosB-[illegible].	[illegible].
SSRIs / SNRIs	[illegible] 2 [illegible] - [illegible]/[illegible].	[illegible] ΔFosB-[illegible] - [illegible] (nucleus accumbens) [illegible], [illegible]. [illegible]. [illegible], [illegible] "[illegible]" [illegible] ([illegible] 12) [illegible], [illegible]. [illegible], [illegible] ΔFosB-[illegible]-[illegible] (receptor-adaptation) [illegible].	[illegible] ([illegible]); [illegible] ([illegible], [illegible]).

[illegible], [illegible]. [illegible], [illegible], [illegible], [illegible], [illegible] - [illegible] - [illegible] ΔFosB [illegible]. [illegible], [illegible]. [illegible], [illegible], [illegible], [illegible].

[illegible].

[illegible] ΔFosB-[illegible]. [illegible], [illegible], [illegible]/[illegible] MTHFR/MAOA [illegible] ([illegible] 6, [illegible] 4) [illegible]. [illegible], [illegible] ΔFosB-[illegible].

[illegible].	[illegible].	ΔFosB [illegible].
P5P ([illegible]-5'-[illegible] - [illegible] B6)	AADC (L-DOPA-[illegible]) [illegible] (GABA [illegible]) [illegible]. [illegible] B6 [illegible] GABA [illegible].	[illegible], D1/PKA/CREB [illegible], [illegible] FOSB [illegible] ([illegible] 6, [illegible] 3) - [illegible], [illegible]. [[illegible], [illegible]]
R5P (Riboflavin-5'-Phosphate — [illegible] B2 / FMN)	[illegible], [illegible] MTHFR ([illegible] C677T [illegible], [illegible] FAD-[illegible]) [illegible] MAOA [illegible].	ΔFosB-[illegible], [illegible], MTHFR [illegible] MAOA [illegible], [illegible] ΔFosB-[illegible] ([illegible] 6, [illegible] 4). [[illegible], [illegible]]
[illegible].	[illegible] ([illegible] NMDA [illegible]) [illegible]. NMDA [illegible]-[illegible] CaMKII-[illegible].	CaMKII [illegible] CK2-[illegible], [illegible] ΔFosB-[illegible] Ser27-[illegible] ([illegible] 1), [illegible], [illegible]. ΔFosB-[illegible]. [[illegible]]

[illegible]: [illegible], [illegible] 3-[illegible] ΔFosB [illegible], [illegible]. [illegible], [illegible], [illegible], GABA [illegible], [illegible], [illegible].

6. [illegible] - [illegible].

ΔFosB [illegible], [illegible]. [illegible], [illegible]. [illegible], [illegible], [illegible].

[illegible] 1 — FOSB [illegible], [illegible].

[illegible], [illegible] - [illegible].

[illegible].	[illegible].	[illegible].	[illegible].
FOSB Ser27Ala (S27A)	[illegible], 27 [illegible], CK2 [illegible].	[illegible]; [illegible], ΔFosB [illegible]	[illegible] ([illegible], [illegible]).

[illegible]	[illegible]	[illegible]	[illegible]
		[illegible], [illegible] [illegible] [illegible] [illegible] [illegible].	
FOSB Ser27Glu (S27E) — [illegible].	[illegible] [illegible] [illegible], [illegible], [illegible] [illegible] [illegible] [illegible] [illegible] - [illegible] [illegible] [illegible] [illegible] [illegible].	[illegible] [illegible] [illegible], [illegible] [illegible] CK2 [illegible]; [illegible] [illegible], [illegible] [illegible] [illegible] [illegible].	[illegible] [illegible] (FOSB [illegible], [illegible]).
FOSB [illegible]-4/[illegible]-4 [illegible] [illegible].	PCBP1/SMAD3 [illegible] [illegible] [illegible], [illegible] [illegible] [illegible] [illegible].	[illegible], degron-[illegible] [illegible] FosB [illegible] [illegible], [illegible] [illegible]. [illegible] [illegible] ΔFosB [illegible] [illegible].	[illegible] (FOSB [illegible]).

[illegible] 2 — [illegible] [illegible] [illegible].

[illegible], ΔFosB [illegible] [illegible] [illegible] [illegible]-[illegible] [illegible] [illegible] [illegible]. [illegible] [illegible] [illegible], [illegible] [illegible] ΔFosB [illegible] [illegible] - [illegible], [illegible] [illegible] [illegible].

[illegible]	[illegible].	[illegible] [illegible].	[illegible].
CSNK2A1 / CSNK2B (CK2 [illegible] [illegible] [illegible] [illegible])	[illegible] [illegible] [illegible] [illegible] [illegible].	[illegible] CK2 [illegible], ΔFosB-[illegible] [illegible] [illegible], [illegible] [illegible] [illegible] [illegible] - [illegible] [illegible] [illegible].	[illegible] (FOSB [illegible], [illegible]).
PCBP1 / SMAD3	[illegible], ΔFosB [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible].	[illegible] [illegible] [illegible], [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] (FosB) [illegible] [illegible], [illegible] [illegible] [illegible] [illegible] [illegible] (ΔFosB) [illegible] [illegible] [illegible] [illegible] [illegible].	[illegible] (FOSB [illegible], [illegible]).
ACVR1B (ALK4 [illegible]).	SMAD3/PCBP1 [illegible] [illegible] [illegible] [illegible] [illegible], [illegible] D1 [illegible] [illegible] [illegible].	[illegible] [illegible], ΔFosB-[illegible] [illegible] [illegible] [illegible] - [illegible] [illegible] [illegible] [illegible] [illegible].	[illegible] (FOSB [illegible], [illegible])

[illegible] 3 — [illegible] [illegible] [illegible] [illegible].

[illegible] [illegible] [illegible] [illegible]-[illegible] [illegible] - [illegible], [illegible] [illegible] [illegible], [illegible] [illegible] [illegible], [illegible] [illegible] [illegible] [illegible] [illegible], ΔFosB-[illegible]. ΔFosB [illegible] [illegible] [illegible], [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible], [illegible] [illegible] [illegible]. "[illegible] [illegible]" [illegible] [illegible], [illegible] [illegible] [illegible] [illegible]:

[illegible] / [illegible]	[illegible].	**ΔFosB** [illegible] [illegible] [illegible].	[illegible] [illegible] [illegible].
DRD1 ([illegible] D1 [illegible]) [illegible].	D1 [illegible], PKA/CREB [illegible] [illegible] [illegible], [illegible] FOSB [illegible].	[illegible] [illegible] [illegible] [illegible], [illegible] [illegible] [illegible] [illegible], [illegible] [illegible] [illegible] [illegible].	[illegible] [illegible] [illegible], [illegible] ΔFosB [illegible] [illegible] [illegible].
CHRNB2 rs2072661	[illegible] [illegible] [illegible] [illegible] 3' UTR [illegible], [illegible] [illegible] [illegible] [illegible] [illegible], [illegible] ΔFosB [illegible] [illegible] [illegible] [illegible].	[illegible] [illegible] [illegible] [illegible] [illegible] [illegible], [illegible] ΔFosB [illegible] [illegible] [illegible] [illegible].	[illegible]: [illegible] [illegible] [illegible], ΔFosB [illegible] [illegible], [illegible] [illegible] [illegible] [illegible]; ΔFosB [illegible] [illegible] [illegible], [illegible].
DBH rs1541333	[illegible] [illegible]- [illegible] [illegible] [illegible], [illegible] [illegible] [illegible].	[illegible]/[illegible] [illegible] [illegible], [illegible] ΔFosB [illegible] [illegible] [illegible] [illegible] [illegible].	[illegible]: [illegible] [illegible], [illegible] [illegible] [illegible] [illegible] [illegible], [illegible] ΔFosB [illegible] [illegible].

[illegible] 4 — [illegible] [illegible] [illegible] [illegible].

[illegible] [illegible] [illegible] (23andMe [illegible] [illegible], [illegible] [illegible] [illegible] Recovery Kernel [illegible] [illegible]) [illegible] [illegible] [illegible] [illegible] [illegible]. [illegible] [illegible] ΔFosB [illegible] [illegible] [illegible] [illegible] [illegible] - [illegible] [illegible] [illegible] [illegible] [illegible] [illegible].

[illegible]	[illegible] [illegible] [illegible] [illegible].	**ΔFosB** [illegible] [illegible] [illegible].
COMT	[illegible]/[illegible] [illegible] [illegible], [illegible] [illegible]. Val/Val = [illegible] [illegible]; Met/Met = [illegible] [illegible].	[illegible] [illegible]. [illegible] [illegible] [illegible] [illegible] [illegible]. [[illegible]/[illegible] [illegible]]
MTHFR	[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible].	ΔFosB [illegible] [illegible] [illegible] [illegible]. [[illegible]]
OPRM1 (A118G)	[illegible] [illegible]-[illegible] [illegible] [illegible] [illegible].	[illegible] [illegible] [illegible] [illegible] [illegible]; [illegible] ΔFosB [illegible] [illegible] [illegible]. [[illegible] [illegible]]

[illegible]	[illegible].	ΔFosB [illegible].
GABRA2	GABA-A [illegible]; [illegible].	[illegible]. [[illegible]]
FAAH (C385A)	[illegible]; A- [illegible].	[illegible]. [[illegible]]
MAOA	[illegible], [illegible], [illegible].	[illegible]. [[illegible]/[illegible]]
SLC6A4 (5-HTTLPR)	[illegible]; [illegible].	[illegible] ΔFosB [illegible]. [[illegible]]
ALDH2	[illegible]; [illegible].	[illegible], [illegible] ΔFosB-[illegible]. [[illegible]/[illegible], [illegible]]
CYP2D6, CYP3A4, CYP2C19, CYP1A2, CYP2C9, CYP2B6	[illegible].	[illegible], [illegible] ΔFosB [illegible]. [illegible]-[illegible]. [[illegible]/[illegible], [illegible]].
HNMT	[illegible].	ΔFosB [illegible]. [[illegible]]

[illegible], [illegible] ΔFosB [illegible]. [illegible], [illegible]. FOSB [illegible] (CK2, PCBP1, SMAD3, ACVR1B) [illegible], [illegible], [illegible]. [illegible] - [illegible]. [illegible] (longitudinal design) [illegible], [illegible]. [illegible], [illegible]. [illegible], [illegible].

7. [illegible]·[illegible]·[illegible] — [illegible]?

[illegible] (SNP [illegible]).

[illegible] (23andMe [illegible]) [illegible], [illegible]-[illegible] - [illegible] Tier 3 [illegible] Tier 4 [illegible]

[illegible]. [illegible] FOSB [illegible] [illegible] [illegible] [illegible], [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]. [illegible], [illegible] [illegible] [illegible], [illegible] Tier 1 [illegible] [illegible] [illegible]. [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]; [illegible], [illegible] [illegible] [illegible] [illegible] [illegible].

[illegible] [illegible] [illegible] [illegible] **(WGBS).**

[illegible] [illegible] [illegible] [illegible] [illegible].

WGBS [illegible] [illegible] [illegible] [illegible], [illegible] [illegible] [illegible] DNA [illegible] - [illegible] [illegible] [illegible] [illegible] - [illegible] [illegible], [illegible] [illegible] [illegible] [illegible] [illegible]. [illegible] [illegible] [illegible] [illegible] ([illegible] "WGBS 30x" [illegible] [illegible], [illegible] [illegible] [illegible] 30 [illegible] [illegible] [illegible]) [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]. Sequencing.com [illegible] WGBS-30x [illegible], [illegible] [illegible] [illegible], [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible], [illegible] [illegible] [illegible] [illegible].

[illegible] [illegible] "[illegible] [illegible]" [illegible] [illegible] (chr 19.[illegible].[illegible]-[illegible] [illegible] [illegible]), [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]. [illegible] [illegible] [illegible] [illegible] [illegible]: ΔFosB-[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible], [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]. [illegible] [illegible] [illegible] [illegible] [illegible] [illegible], [illegible] [illegible] [illegible] [illegible] [illegible]. [illegible] WGBS [illegible] [illegible] [illegible] [illegible], [illegible] [illegible] [illegible] [illegible]; [illegible] [illegible] [illegible]... [illegible] ΔFosB [illegible] [illegible], [illegible] [illegible] [illegible] [illegible].

> WGBS [illegible] [illegible], [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]. [illegible], [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]. [illegible], [illegible] [illegible] [illegible], "[illegible] ΔFosB [illegible] [illegible] [illegible]" [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]. [illegible] [illegible] [illegible] [illegible] [illegible], [illegible] [illegible] [illegible].

8. [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible].

[illegible]/[illegible] [illegible], [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible].

[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible], "Recovery Kernel" [illegible] [illegible] [illegible] [illegible] [illegible] [illegible], [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] - [illegible] [illegible] [illegible] [illegible] [illegible] [illegible], [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible].

- [illegible] [illegible]. [illegible] 2-[illegible] [illegible] [illegible] [illegible] [illegible] [illegible], [illegible] [illegible] [illegible] [illegible] ΔFosB [illegible] [illegible] [illegible] - [illegible], [illegible] [illegible], [illegible] [illegible] [illegible] [illegible] [illegible]. [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] (DAT [illegible], mu-[illegible] [illegible], GABA-A [illegible] [illegible]). [illegible] [illegible] [illegible] [illegible] [illegible], [illegible], [illegible] ΔFosB [illegible] [illegible] [illegible]; [illegible], [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible], [illegible]

[illegible] ΔFosB [illegible].

- [illegible]. [illegible], ΔFosB-[illegible]. [illegible], [illegible]. [illegible], [illegible] ([illegible] 4) [illegible], [illegible]. [illegible], [illegible].
- [illegible]. [illegible], [illegible], [illegible], [illegible]-[illegible], [illegible]. [illegible], ΔFosB-[illegible] - [illegible], [illegible].

[illegible], [illegible]. Recovery Kernel [illegible], [illegible]. [illegible], [illegible] ([illegible] 3-[illegible]) [illegible], [illegible]. [illegible], [illegible].

9. [illegible] - [illegible] ([illegible], [illegible], [illegible])

"[illegible]" [illegible] - [illegible], [illegible] ("[illegible]") [illegible], [illegible]/[illegible], [illegible] - [illegible], [illegible]. [illegible], [illegible], [illegible].

[illegible].	ΔFosB [illegible] ([illegible] 2-[illegible]).	[illegible].
[illegible].	[illegible].	DAT/NET [illegible], [illegible].
Mephedrone / cathinones ("cat")	[illegible].	[illegible], [illegible], [illegible].
GHB / GBL	[illegible]-[illegible].	[illegible] ΔFosB [illegible], [illegible]. [illegible] (physical-dependence) [illegible], [illegible] (reward-circuit) [illegible] ([illegible]).

[illegible], [illegible] ΔFosB [illegible]. [illegible], [illegible]

[illegible] - [illegible], [illegible].

- [illegible] ([illegible] 8) - [illegible], [illegible].

[[illegible]] [illegible] ΔFosB [illegible], [illegible]. [illegible] (Pitchers et al., 2010, [illegible], [illegible] ΔFosB [illegible]) [illegible] (nucleus accumbens), [illegible].[illegible].[illegible] (VTA), [illegible] (prefrontal cortex) [illegible] ΔFosB [illegible] - [illegible], [illegible], [illegible]. [illegible]; [illegible], [illegible].

- [illegible], [illegible]. [illegible], [illegible]. [illegible] 12, [illegible]. [illegible], [illegible], [illegible].

GHB/GBL [illegible], [illegible] ΔFosB [illegible]: [illegible], [illegible] GABA [illegible]. [illegible], [illegible], [illegible]. [illegible] GHB/GBL [illegible]. [illegible] - [illegible].

[illegible], [illegible], [illegible], [illegible], PTSD ([illegible]), [illegible]. [illegible], [illegible]. [illegible], GHB/GBL [illegible], [illegible]. [illegible], [illegible] ΔFosB [illegible], [illegible]. [illegible], [illegible].

10. [illegible], "[illegible]," [illegible].

[illegible], [illegible], [illegible]: [illegible] - "[illegible]", "[illegible]", [illegible] "[illegible]" - [illegible], [illegible]. [illegible]. [illegible], [illegible].

[illegible] ([illegible] 4-[illegible] [illegible], [illegible]).

[illegible]: [illegible] ΔFosB [illegible] - [illegible], [illegible] 3-[illegible]. [illegible] 4, [illegible]: [illegible] (HDAC1 [illegible] c-fos-[illegible], CDK5/GluA2/ARC [illegible] BRG1 [illegible]), [illegible]. [illegible]. ΔFosB [illegible], [illegible]. [illegible] - [illegible].

[illegible], [illegible] ΔFosB-[illegible]. [illegible], [illegible], [illegible] ΔFosB-[illegible]. [illegible], [illegible]. [illegible], [illegible] ΔFosB [illegible], [illegible], [illegible]. [illegible] "[illegible]" [illegible]. [illegible], [illegible], [illegible], [illegible]. [illegible], "[illegible], [illegible], [illegible], [illegible]" [illegible].

[illegible], [illegible] - [illegible], [illegible] ΔFosB [illegible], [illegible]. [illegible], [illegible]. [illegible], [illegible], [illegible], [illegible], [illegible].

11. [illegible].

[illegible] ([illegible]; [illegible] 1-4 [illegible]).

ΔFosB-[illegible], [illegible], [illegible]. [illegible] AP-1 [illegible] ([illegible] JunD [illegible]), [illegible] - [illegible], [illegible], [illegible], [illegible].

- [illegible], [illegible], "[illegible]" (stress-induced premature senescence - SIPS) [illegible]. [illegible] ΔFosB [illegible], [illegible] (EGR3) [illegible], DNA-[illegible] (GADD45B/G) [illegible] p21 (CDKN1A) [illegible]. [illegible], [illegible]

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[illegible]. [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] "[illegible]" [illegible] [illegible] [illegible]. [illegible] [illegible] [illegible] [illegible], [illegible] [illegible] [illegible] [illegible] [illegible], [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]. [illegible] [illegible].

[illegible] [illegible] [illegible] [illegible] [illegible]: [illegible] [illegible] [illegible], [illegible] [illegible] [illegible], [illegible] [illegible] [illegible] [illegible] [illegible], [illegible] [illegible] [illegible] [illegible] (Часть III - [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible], [illegible] [illegible] I - [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]).